APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

New Method of Producing Articles (Sheets, [illegible]
Rods, Various Sections, etc.) Directly From Liquid
Metal, II., by A. L. Shakh-Budagov, A. V. Stepanov;
10 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXIX, No 3, 1959,
pp 394-405.

AIP
Vol IV, No 3

100,132

Sci - Phys
Oct 59

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Study of the Mechanical Properties of Solids Particularly Metals at and Below Temperatures of 4.2° K.3. The Mechanical Properties of Iron, Titanium, Tantalum and 2 Steel at and Below Temperatures of 4.2° K, by O. V. Kliavin, A. V. Stepanov, 6 pp

RUSSIAN, per, Fiz, Metal i Metallov, Vol VIII, No 6 1959, pp 922-927

PP 140,270

Sci-
Feb 61

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

A New Method of Producing Manufactured Articles Directly From a Melt, by A. V. Stepanov. UNCL

RUSSIAN, per, Vest Mash, No 11, 1959, pp 47-49.

BISI 1642

(L3.5s.Od.ϕ

Mar 60

111,152

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

A Study of the Mechanical Properties of Solids, in Particular of Metals at Absolute Temperatures of 4.2°K and Below. 1. Tensile Testing of polycrystalline Aluminium (99.3%), by O. V. Klyavin, A. V. Stepanov, 8 pp.

RUSSIAN, per, Fiz Metal i Metallov, Vol VIII, No 2, 1959, pp 274-281.

PP

134,929

Sci

Dec 60

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

The Doppler Width of Emmission and Absorption Lines, by, M. I. Podgoretskiy, A. V. Stepanov. pp, 4

RUSSIAN, per, Zhur EKper i Teoret Fiz, Vol XL, No 2, 1961, pp, 561-566.

AIP
SOV Phys-JETP
VOL XIII, No 2

167,537

Sci
Aug 61

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Separation of Certain Isotopes by the Method of Focusing Ion Exchange, by V. P. Shvedov, T'eng T'eng, A. V. Stepanov, 5 pp.

RUSSIAN, per, Zhur Anal Khim, Vol XV, No 1, 1960, pp 16-19

CB

Sci
Aug 61

163, 933

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Elastic Resonance Scattering of Slow Neutrons in Crystals, by M. V. Kazarnovskiy, A. V. Stepanov, 5 pp.

RUSSIAN, papers, Proceedings of a Symposium on the Inelastic Scattering of Neutrons in Solids and Liquids, Vienna, October 11-14, 1960, pp 97-100. 9091161

AEC Tr-5145

Sci - Nuc Phys
Aug 62

208,458

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Neutron Thermalization and the Properties of the Van Hove Pair Correlation Function, by M. V. Kazarnovskiy, A. V. Stepanov, 10 pp.

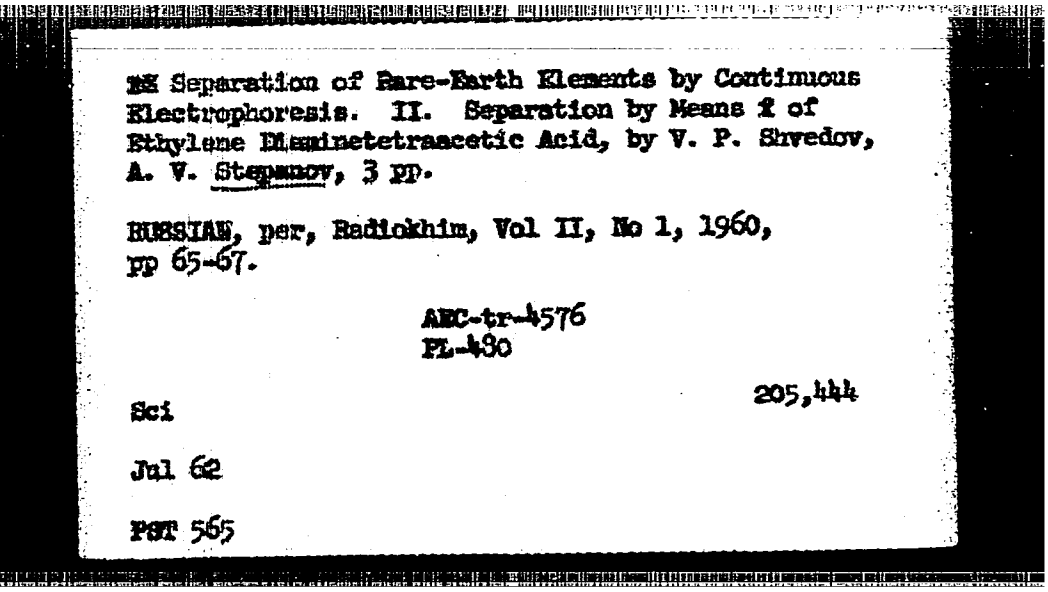
RUSSIAN, papers, Proceedings of a Symposium on the Inelastic Scattering of Neutrons in Solids and Liquids, Vienna, October 11-14, 1960, pp 87-95. 9091156

AEC Tr-5146

Sci - Nuc Phys
Aug 62 208,459

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(



Separation of Rare-Earth Elements by Continuous Electrophoresis. II. Separation by Means of Ethylene Diaminetetraacetic Acid, by V. P. Shvedov, A. V. Stepanov, 3 pp.

RUSSIAN, per, Radiokhim, Vol II, No 1, 1960, pp 65-67.

AEC-tr-4576
PL-480

205,444

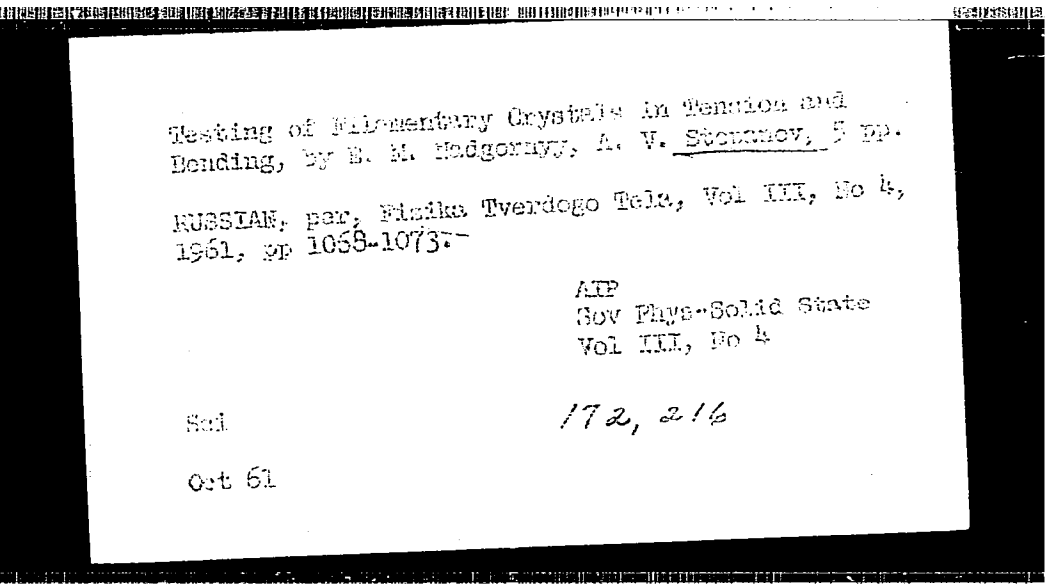
Sci

Jul 62

PGT 565

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(



Testing of Filamentary Crystals in Tension and Bending, by E. M. Nadgornyy, A. V. Stepanov, 5 pp.

RUSSIAN, par, Fizika Tverdogo Tela, Vol III, No 4, 1961, pp 1068-1073.

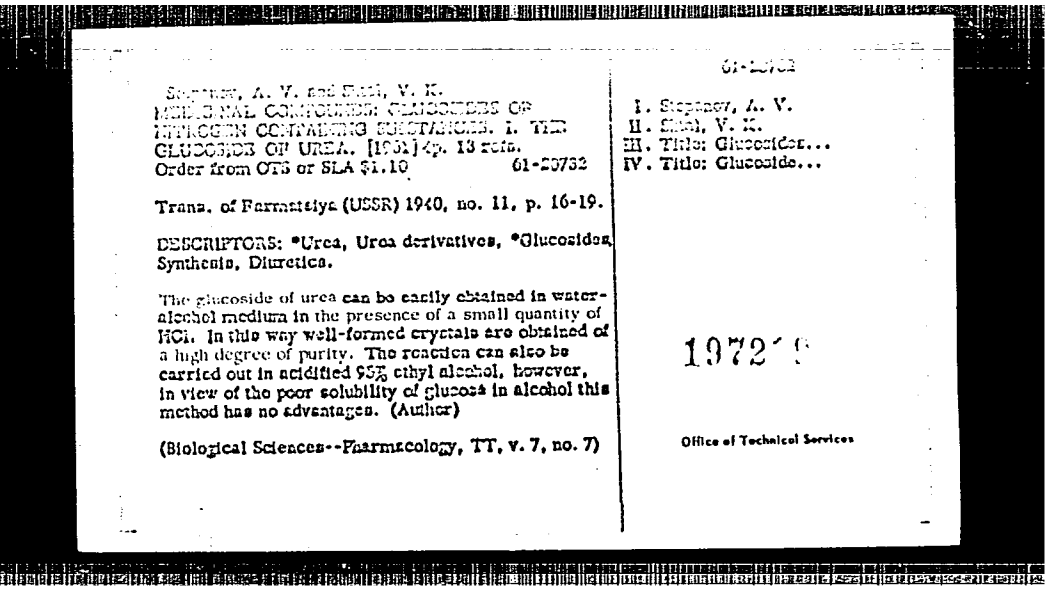
AIP
Sov Phys-Solid State
Vol III, No 4

Sol 172, 216

Oct 61

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(



Stepanov, A. V. and Shtil, V. K.
NEW SYNTHETIC COMPOUNDS: GLUCOSIDES OF NITROGEN CONTAINING SUBSTANCES. I. THE GLUCOSIDE OF UREA. [1940] 4p. 13 refs.
Order from OTS or SLA $1.10 61-20732

Trans. of Farmatsiya (USSR) 1940, no. 11, p. 16-19.

DESCRIPTORS: *Urea, Urea derivatives, *Glucosides, Synthesis, Diuretics.

The glucoside of urea can be easily obtained in water-alcohol medium in the presence of a small quantity of HCl. In this way well-formed crystals are obtained of a high degree of purity. The reaction can also be carried out in acidified 95% ethyl alcohol, however, in view of the poor solubility of glucose in alcohol this method has no advantages. (Author)

(Biological Sciences--Pharmacology, TT, v. 7, no. 7)

61-20732

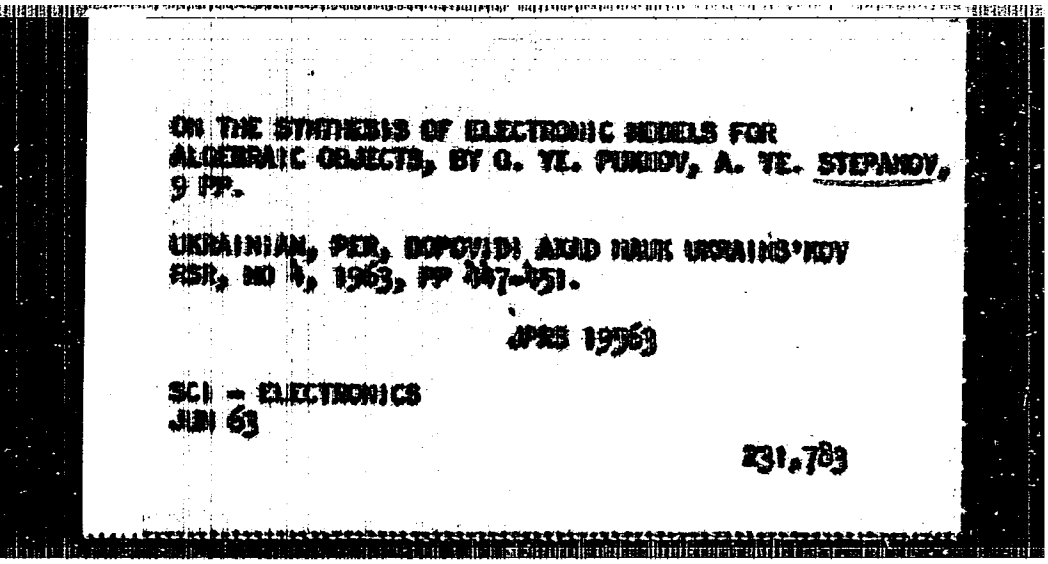
I. Stepanov, A. V.
II. Shtil, V. K.
III. Title: Glucosides...
IV. Title: Glucoside...

19721

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(



ON THE SYNTHESIS OF ELECTRONIC MODELS FOR ALGEBRAIC OBJECTS, BY O. YE. PUKHOV, A. YE. STEPANOV, 9 PP.

UKRAINIAN, PER, DOPOVIDI AKAD NAUK UKRAINS'KOY RSR, NO 6, 1963, PP 787-791.

APRS 19763

SCI - ELECTRONICS
JUN 63

231,783

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

On the Road to the Stars, by B. Stepanov. 2pp

RUSSIAN, np, Krasnaya Zvezda, 17 May 1960, p 4.

9678063

*FTD-TT-62-853

Sci - Space Res

15 Jun 62

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Fundamentals of Radiolocation, by Eng Col Lt. M. Alekseyev, Eng Maj B. Stepanov, 12 pp.
UNCLASSIFIED

RUSSIAN /Per, Vest Vozdush Flota, No 11, Nov 1952, Encl to Report No 1A1-424-54, AFOIN, CIA D 136806

AF 644968

Scientific - Electronics Mar 55 CTS/DEX

21,787

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

B. A. Stepanov

Redox Potential of Xanthates, by
B. A. Stepanov.
RUSSIAN, per. Nauchnye Doklady Vysshei Shkoly. Khimiya i Khimicheskaya Tekhnologiya, No 2, 1959, pp 277-279.
NTC 72-11232-07D

May 72

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Desorption of Some Split Radio Isotopes From the Bottom Sediments, by B. A. Stepanov. UNCL

RUSSIAN, per, Gig i San, No 11, 1957, pp 3-8.

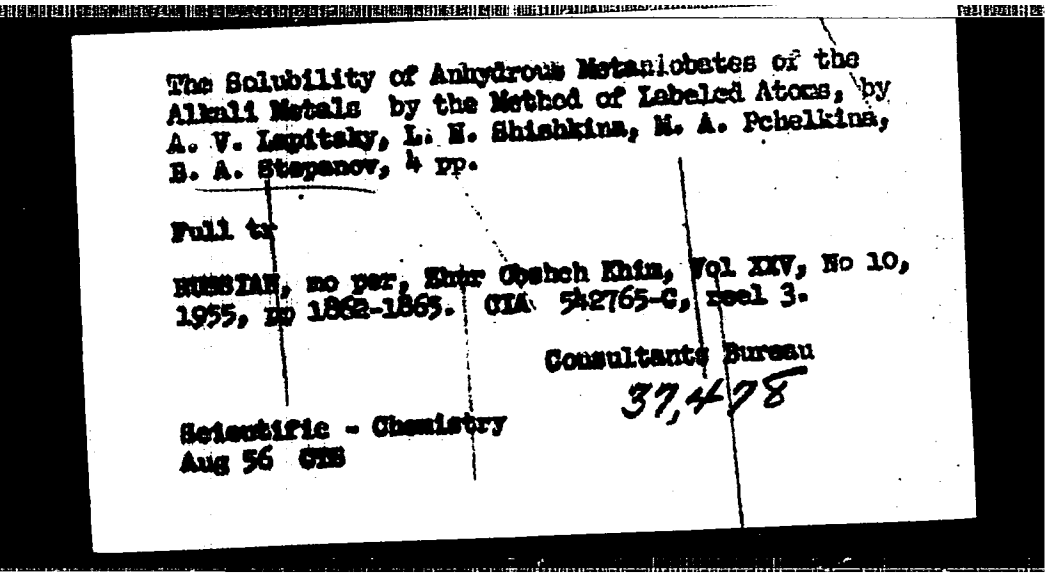
Co-op Tr Scheme 575
8p.0d. (12p.0d.)

Sci - Geophysics
Mar 59

82,471

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(



The Solubility of Anhydrous Metaniobates of the Alkali Metals by the Method of Labeled Atoms, by A. V. Lapitsky, L. N. Shishkina, M. A. Pchelkina, B. A. Stepanov, 4 pp.

Full tr

RUSSIAN, no per, Zhur Obshch Khim, Vol XXV, No 10, 1955, pp 1862-1865. CIA 542765-C, reel 3.

Consultants Bureau

37,478

Scientific - Chemistry
Aug 56 GTS

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

The Redox Potentials of Dithiophosphates, by I. A. Kakovskiy, B. A. Stepanov, O. F. Ryazantseva, N. V. Serebryakova, 5 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 8, 1959, pp 1830-1839.

Cleaver-Hume Press

Available Br 5 Library

Sci

116,852

May 60

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Investigation of the Solubility of Anhydrous Metatantalates of the Alkali Metals, by A. V. Lapitsky, B. A. Steganov, M. A. Fchelkina, Mf
4 pp.

Full tr

RUSSIAN, MB no per, Zhur Obshch Khim, Vol XXV, No 10, 1955, pp 1866-1870. CIA 542765-C, reel 3.

37,475 Consultants Bureau

Scientific - Chemistry
Aug 56 CSB

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Desorption of Some Split Radio Isotopes From the Bottom Sediments, by B. A. Stepanov.

U of Washington
Fisheries and Oceanography Lib
Transl.

Oct 61

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Stepanov, B. I. and Rubanov, A. S.
CALCULATION OF THE INDICATIONS OF A RECEIVER USING OPTICAL AMPLIFIERS, tr. by L. J. Holtschlag. 13 Aug 63, 8p 5refs APL/JHU TG 230-T378.
Contract NOw 62-0604-c
Order from OTS $0.50 TT-63-11721

Trans. of Akad[emiya] Nauk BSSR [Minsk]. Dokl[ady] 1962, v. 6, no. 9, p. 572-575.

DESCRIPTORS: *Optical equipment, Light, *Amplifiers, *Lasers, *Thermodynamics, Luminescence, Quantum mechanics.

(Physics, TT, v. 11, no. 1)

TT-63-11721

I. Stepanov, B. I.
II. Rubanov, A. S.
III. APL/JHU TG-230-T378
IV. Applied Physics Lab., Johns Hopkins U., Silver Spring, Md.
V. Contract NOw 62-0604-c

[redacted]

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Infra Red Spectra of Uranyl Salts, by A. N. Sevchenko, B. I. Stepanov. 84
RUSSIAN, per. Zh. Eksp. Teor. Fiz, Vol 19, No 2, 1949, pp 1113-1120. 9233469
AEC NP-tr-1589

B. I. Stepanov

Sci/Physics
Aug 66

306,345

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Laser Action in an Unbounded Plane-Parallel Slab, by B. I. Stepanov, A. M. Goncharenko, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, Vol XXVII, No 4, 1963, pp 462-467.

CTT

Sci

Apr 64

256,021

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Conditions for Generating Radiation by a Plane-Parallel Plate, by A. P. Khapaliuk, B. I. Stepanov.

RUSSIAN, per, Vestsi Ak Navuk Belaruskay SSR Physical-Technical Sciences Series, No 4, 1961, pp 132-133.

Navy Tr 3456/APL 340

Sci - Electron
Aug 63

34,566

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

On a Violation of the Law of Bouguer in Media With a Negative Coefficient of Absorption, by B. I. Stepanov.

BELORUSSIAN, per, Dok Ak Nauvk BSSR, Vol V, No 11, 1961, pp 489-491.

Navy Tr 3545/APL 379

Sci - Phys
Sep 63

344168

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Some Problems of the Nonlinear Theory of the Optical Properties of Plane-Parallel Layers.
By A. M. Samson, B. I. Stepanov, pp. 5

RUSSIAN. par. Optika i Spektro, Vol XIV, No 1, 1963, pp. 57-64.

OSA

Sci

340, 731

Jul 63

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Possible and Stable States of Stationary Oscillation in a Plane-Parallel Layer, by V. I. Klimanov.

BELORUSSIAN, per, Dok Ak Nauk BSSR, Vol VI, No 10, 1962, pp 629-632.

Navy Tr 3543/APL 377

Sci - Electron, Phys
Sep 63

344,166

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Calculation of the Indications of a Receiver Using Optical Amplifiers, by B. I. Stepanov, A. S. Rubanov

BELORUSSIAN, per, Dok Ak Navuk BSSR, Vol IV, No 9, 1960, pp 372-375.

Navy Tr 3544/APL 378

Sci - Electron
Sep 63

344,167

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Calculation in a Nonlinear Approximation of the Effect of Nonlinearity on the Light Conditions in a Plane-Parallel Layer, by A. P. Ivanov, B. I. Stepanov.

[illegible], per, Dok Ak Nauk [illegible] SSSR, Vol VI, No 3, 1962, pp 147-150.

Navy Tr 3537/APL 371

Sci - Math, Data Processing
Sep 63

344,172

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

The Light Field Within an Unbounded Plane-Parallel Layer Under Generation Conditions, by B. I. Stepanov.

BELORUSSIAN, per, Dok Ak Navuk BSSR, Vol VI, No 6, 1962, pp 355-359.

Navy Tr 3542/APL 376

Sci - Phys
Sep 63

344,177

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Reflexion Spectra of Coloured Scattering Objects II, by O. P. Girin, B. I. Stepanov.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XXVII, 1954, pp 467-476.

CSIRO

Sci - Phys
Aug 62

207, 440

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Present State of the Theory of Luminescence of Complex Molecules, by B. I. Stepanov, ~~XXXXX~~ 12 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, Vol XXVI, No 1, 1962, pp 32-42.

CTT

Sci

Jan 63

220,685

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Consideration of the Splitting of the Metastable Level of a Three-Level Quantum Generator, by B. I. Stepanov, V. P. Gribkovskiy. RUSSIAN, per, Dokl Ak Nauk Belor SSR, Vol VII, No 5, 1963, pp 305-308. Dept of Navy 4790/APL/JHU TG 230-T467

B. I. Stepanov

Sci - Engr
Aug 66

305,639

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Stepanov, B. I. and others.
AN INFRARED SPECTROSCOPIC STUDY OF CELLULOSE AND REGENERATED CELLULOSE OBTAINED BY THE CLASSICAL METHOD AND IN THE "VA" APPARATUS. [1961] [9]p. 8 refs.
Order from OTS or SLA $1.10 61-16799

Trans. of Akademiya Nauk BSSR [Minsk]. Doklady, 1957, v. 1, no. 3, p. 92-95.

DESCRIPTORS: *Cellulose, Production, Infrared spectroscopy, Physical properties.

(Materials, TT, v. 7, no. 10)

61-16799

I. Stepanov, B. I.

208204

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Accounting for the Splitting of the
Metastable Level of a Three-Level
Quantum Generator, by
B. I. Stepanov, V. P. Gribkovskiy.
RUSSIAN, per. Dok Ak Nauk Belorusskoi SSR,
Vol VII, No 5, 1963, pp 305-308.
*Dept of Navy/APL/JHU/ J-796

85
104
113

B. I. Stepanov

Sci-M/H
May 66

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

The Replacement of Halogen in Azo Compounds. XXXI. Replacement of Chlorine Atoms in Disazo Dyes From 3,3'-Dichlorobenzidine by Alkoxy and Aroxy Groups and the Preparation of Ethers of 4,4'-Diamino-3,3'-Dihydroxybiphenyl, by N. A. Rosanel'skaya, B. I. Stepanov, 6 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXXI, No 3, 1961, pp 758-763.

CB

Sci

May 62

195,181

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

On Agreement Between the Classical and Quantum Theories of the Interaction of Light with Harmonic Oscillators, by V. P. Gribkovskiy, B. I. Stepanov, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, Vol XXIV, No 5, 1960, pp 529-533.

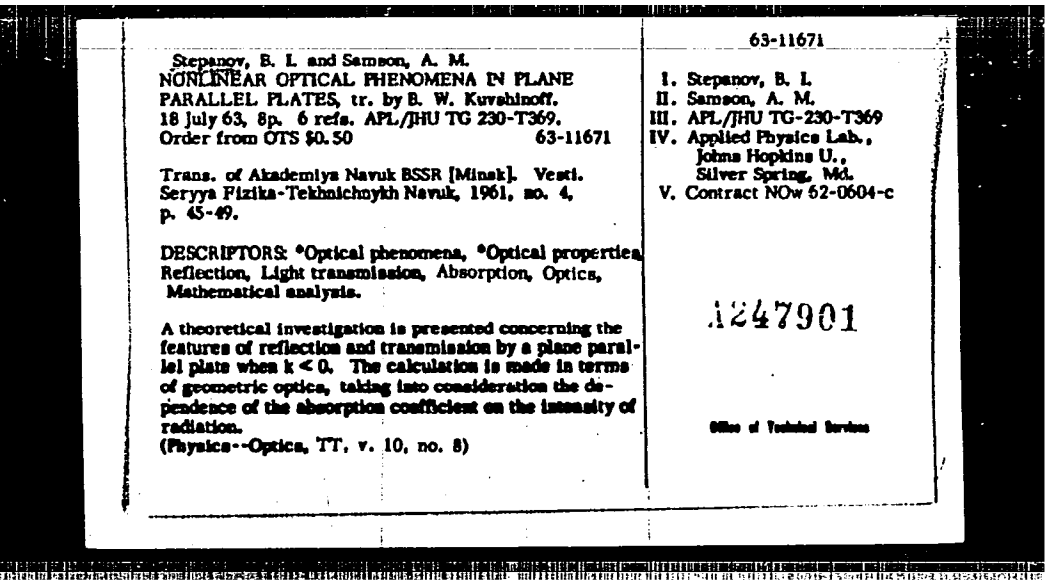
CTT

159,640

Sci
Jul 61

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(



Stepanov, B. I. and Samson, A. M.
NONLINEAR OPTICAL PHENOMENA IN PLANE PARALLEL PLATES, tr. by B. W. Kuvshinoff. 18 July 63, 8p. 6 refs. APL/JHU TG 230-T369.
Order from OTS $0.50 63-11671

Trans. of Akademiya Navuk BSSR [Minsk]. Vesti. Seryya Fizika-Tekhnichnykh Navuk, 1961, no. 4, p. 45-49.

DESCRIPTORS: *Optical phenomena, *Optical properties, Reflection, Light transmission, Absorption, Optics, Mathematical analysis.

A theoretical investigation is presented concerning the features of reflection and transmission by a plane parallel plate when k < 0. The calculation is made in terms of geometric optics, taking into consideration the dependence of the absorption coefficient on the intensity of radiation.
(Physics--Optics, TT, v. 10, no. 8)

63-11671

I. Stepanov, B. I.
II. Samson, A. M.
III. APL/JHU TG-230-T369
IV. Applied Physics Lab., Johns Hopkins U., Silver Spring, Md.
V. Contract NOw 62-0604-c

A247901

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Quantum Mechanical Theory of the Absorption and Luminescence Spectra of Complex Molecules, by B. I. Stepanov, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXXVII, No 4, 1961, pp 836-839.

AIP
Sov Phys-Dok
Vol VI, No 4

Sel

173, 010

Oct 61

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Nonlinear Optical Effects in a System of Particles with Three Energy Levels, by B. I. Stepanov, V. P. Gribkovskiy, pp 534-538.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, Vol XXIV, No 5, 1960, pp 534-538.

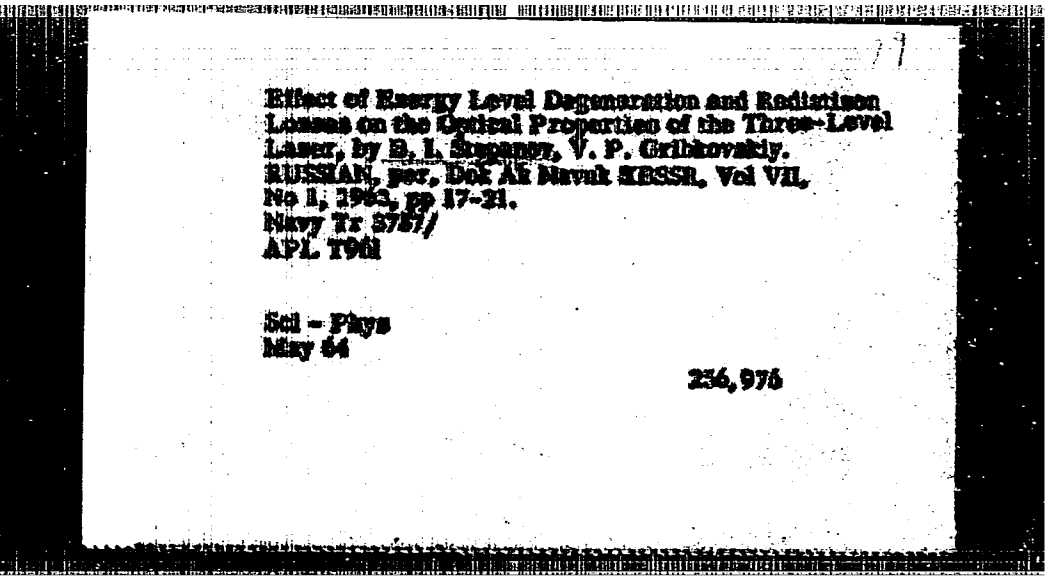
CTT

159,641

Sci
Jul 61

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(



Effect of Energy Level Degeneration and Radiation Losses on the Optical Properties of the Three-Level Laser, by B. I. Stepanov, V. P. Gribkovskiy. RUSSIAN, per. Dok AN Navuk BSSR, Vol VII, No 1, 1963, pp 17-21. Navy Tr 5787/ APL T961

Sci - Phys
May 64

236,976

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Secondary Light Absorption and Emission Processes, by B. I. Stepanov, A. M. Samson, 7 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, Vol XXIV, No 5, 1960, pp 502-508.

CTT

159, 642

Sci
Jul 61

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Substitution of Halogen in Azo Compounds. X. Preparation of Monoethers of 2,2'-Dihydroxy-1,1'-azonaphthalene and Simple Ethers of 1-Amino-2-naphthol, by B. I. Stepanov, 6 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXX, No 6, 1960, pp 2008-2013.

CB

Sci
Aug 61

162,566

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Replacement of Halogen in Azo Compounds. VIII. Reaction of 2-Chlorobenzeneazo-2'-naphthol With Amines, by B. I. Stepanov, L. B. Aingorn, 3 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXIX, No 10, 1959, pp 3436, 3437.

CB

Sci
Oct 60

130,634

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

The Replacement on Halogens in Azo Compounds XI. The Significance of Some Spatial Factors, by B. I. Stepanov, M. A. Andreyeva, 6 pp.

RUSSIAN, per, Zhur Obshch, Khim, Vol XXX, No 8, 1960, pp 2748-2753.

CB
168,771

Sci

Sep 61

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Effect of Thermal Irradiation Background on Spectroscopic Processes, by B. I. Stepanov, 12 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol III, 1957, pp 3-8.

AEC Tr-4519

Sci
Jun 61

155,956

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Replacement of Halogen in Azo Compounds. IX. Effect of Position of Halogen and Electron-Donor Substituent and of the Nature of the Electron-Donor Substituent, by M. A. Andreyev, B. I. Stepanov, 7 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXX, No 4, 1960, pp 1350-1355.

CB

153,919

Sci

June 1961

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

(NY-5375)

Eighth All-Union Conference on Luminescence, by N. A. Berisevich, M. A. Yel'yashevich, B. I. Stepanov, 108 pp.

RUSSIAN, per, Uspekh Fiz Nauk, Vol LXXI, No 1, 1960, pp 131-136.

JPRS 7362

Sci - Phys

137,827

Jan 61

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Correlation between the luminescence and absorption spectra of complex molecules, by B. I. Stepanov, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, Vol XXII, No 11, 1958, pp 1367-1371.

Columbia Tech

Sci

Jan 60

106,843

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

On the meaning of photoluminescence and scattering, by B. I. Stepanov and P. A. Apanasevich, 3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, Vol XXIII, No 11, 1958, pp 1380-1386.

Columbia Tech

Sci

Jan 60

106,845

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Infra-Red Spectra of Cellulose During the Production of Viscose, by B. I. Stepanov, R. G. Zhbankov, A. Ya. Rosenberg, 3 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXVIII, No 9, 1959, pp 1907-1913.

Cleaver-Hume Press
Available Br 5 Library

Sci

Jun 60

117,183

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

The Classification Secondary Radiation B. I. Stepanov, P. A. Apanasevich, 5 pp.

RUSSIAN, per, Optika i Spektro, Vol VII, No 4, 1959, pp 432-445.

OSA

Sci

149,493

Apr 61

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Polarization of Harmonic Oscillator Luminescence, by V. P. Gribkovskiy, B. I. Stepanov, 4 pp.

RUSSIAN, per, Optika i Spektro, Vol VIII, No 2, 1960, pp 176-182.

OSA

Sci

Apr 61

149,502

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Polarization of Luminescence in a System of Particles with Three Energy Levels as a Function of the Exciting Light Intensity, by B. I. Stepanov, V. P. Gribkovskiy, 5 pp.

RUSSIAN, per, Optika i Spektro, Vol VIII, No 2, 1960, pp 224-231.

OSA

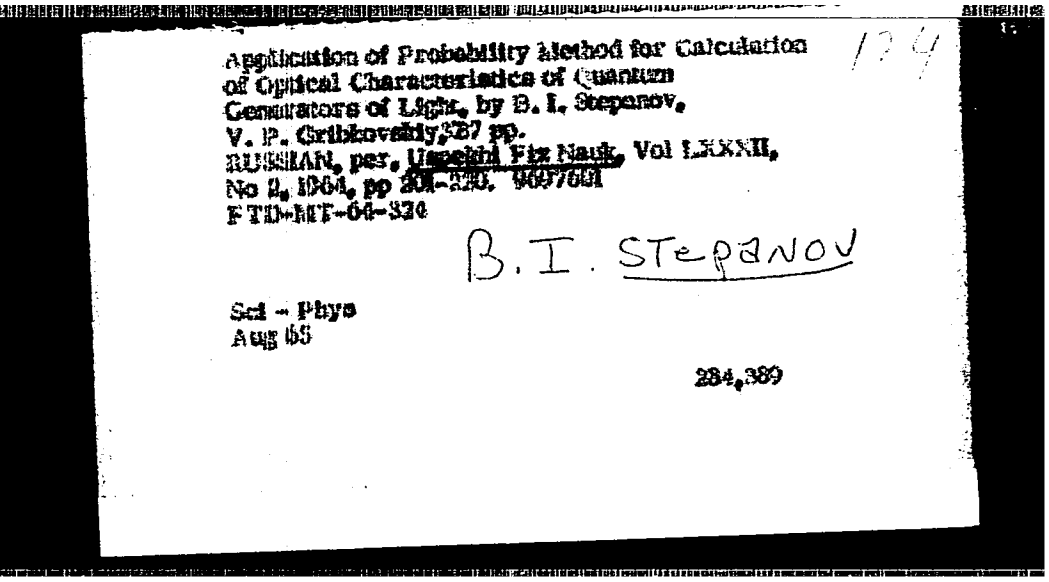
Sci

Apr 61

149,508

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(



Application of Probability Method for Calculation of Optical Characteristics of Quantum Generators of Light, by B. I. Stepanov, V. P. Gribkovskiy, 37 pp.
RUSSIAN, per, Izvestiya Fiz Nauk, Vol LXXXII, No 2, 1964, pp 201-220. 9007601
FTD-MT-64-320

B. I. STEPANOV

Sci - Phys
Aug 65

284,389

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Accumulation and Release of Radiation Within a Plane-Parallel Layer, by B. I. Stepanov.

BELORUSSIAN, per, Dok Ak Navuk BSSR, Vol V, 1961, pp 543-544.

Navy Tr 3541/APL 375

Sci - Phys
Sep 63

344,176

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Halogen Displacement in Azo Compounds. VI. Substitution of Chlorine by a Methoxy Group in 2-Hydroxy-8-chloro-(1,1')-azonaphthalene and in Its Copper Complex, by B. I. Stepanov, V. A. Savel'ev, 4 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXVIII, No 11, 1958, pp 2968-2971.

Consultants Bureau

Sci

Dec 59

103/140

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

A Universal Relation Between the Absorption and Luminescence Spectra of Complex Molecules, by B. I. Stepanov, 4 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol CXII No 5, 1957, pp 839-841.

Amer Inst of Phys
Sov Phys, "Doklady"
Vol II, No 1

56,957

Sol - Physics
Dec 57

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Absorption and Emission of Light by a Gray Substance, by B. I. Stepanov, 6 pp.

RUSSIAN, bimo per, Zhur Eksper i Teoret Fiz, Vol XXVIII, May 1955, pp 559-566. CIA C 40837

American Inst of Physics
57 East 55 St.
New York, 22, N. Y.

Scientific - Physics 31,430

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

On the Resonance-Fluorescence of Atoms, by
M. N. Alentsev, V. V. Antonov-Romanovskiĭ,
B. I. Stepanov, M. V. Fok, 2 pp.

RUSSIAN, bimo per, Zhur Eksper i Teoret Fiz,
Vol XXVIII, No 1, 1955, pp 253-254. CIA C 40845

American Inst of Physics
57 East 55 St.
New York 22, N. Y.

31,346

Scientific - Physics

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Influence of Background Thermal Radiation on Readings by Radiation Receivers, by B. I. Stepanov, A. S. Rubanov.

Doklady An SSSR, Vol CXXVIII, No 3, RUSSIAN, per, ~~XXXXX~~
pp 517-520.

AID SIR-3186
9048181

Sci - Nuc Phys

May 60

115 627

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Replacement of Halogen in Azo Compounds. I. Replacement of Chlorine in 2-Chlorophenylazo-2'-naphthol by Alkoxy Groups, by B. I. Stepanov, M. A. Salivon, V. F. Lagidze, L. A. Dedyukhina, 6 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXVIII, No 7, 1958, pp 1915-1920.

Consultants Bur

Sci - Chem

96,880

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Replacement of Halogen in Azo Compounds. II. Reaction of 2-Chlorophenylazo-2'-Naphthol With Phenolates, by B. I. Stepanov, L. A. Dedyukhina, T. T. Strashnova, 4 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXVIII, No 7, 1958, pp 1921-1924.

Consultants Bur

Sci - Chem

96,881

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Absorption and Luminescence of a Harmonic Oscillator, by B. I. Stepanov, ~~xxxxx~~ V. P. Gribkovskiy, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXI, No 3, pp 446-8

Amer Inst of Phys
Sov Phys - Doklady
Vol III, No 4

Sci - Phys

Jul 59

91,940

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

To the Theory of the Color of Organic Compounds, II., by B. I. Stepanov, 16 pp.

RUSSIAN, no per, Zhur Fiz Khim, Vol ~~XXX~~ XXX, No 1, 1956, pp 34-49.

Tech and Comm Tr

37,095

Sci - Chemistry

Aug 56 CTS/Dex

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Calculation of the Frequencies of Vibration of Organic Molecules, by M. A. El'iashevich, B. I. Stepanov, 4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, Vol V, No 2-3, 1941, pp 155-157.

Sci Trans Center RT-514

Scientific - ~~Mathematics~~ Physics 10,935
CTS/DEX

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Luminescence Efficiency of Complex Molecules, by B. I. Stepanov, 9 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, Vol XX, No 4, Apr 1956, pp 493-501.

Columbia Tech
SLR-CTT

Sci - Physics
May 57

45/185

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Nonlinear Optical Phenomena in Plane Parallel Plates, by B. I. Stepanov, A. M. Samson.

RUSSIAN, per, Vestsi Ak Navuk Belaruskay SSR, Ser Fiz-Tekh Navuk, No 4, 1961, pp 45-49.

Navy Tr 3511/APL 828

Sci - Phys
Aug 63

238,309

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Absorption and Emission Band Contours of Complex Molecules, by B. I. Stepanov, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, Vol XX, No 4, Apr 1956, pp 458-463.

Columbia Tech

Sci - Physics
May 57

48,179

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Spectroscopy of Negative Radiant Energy Fluxes, by B. I. Stepanov and Ya. S. Khveshchevskaya, 4 pp.

RUSSIAN, per, Is Ak Nauk, Ser Fiz, Vol XXII, No 9, 1958, pp 1079-1082.

Columbia Tech

Sci

Dec 59

101, 888

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Determination of the True Absorption Spectrum of Light-Dispersing Colored Objects From Their Diffuse Reflection Spectrum, by O. P. Girin, Z. V. Zhidkova, B. I. Stepanov, A. P. Ivanov, A. S. Toporets, 1 p.

RUSSIAN, bimo per, Iz Ak Nauk SSSR, Ser Fiz, Vol XVIII, No 6, 1954, pp 728. CIA C 40664

Columbia Tech Tr

Scientific - Physics 31,739 Feb 56 CTS/DEX

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Vibration Spectra of Hydrocarbon Molecules. IX. Calculation of Frequencies of Propane and Butane, by M. A. El'yashevich, B. I. Stepanov, 13 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XVII, No 3, 1943, pp 145-158.

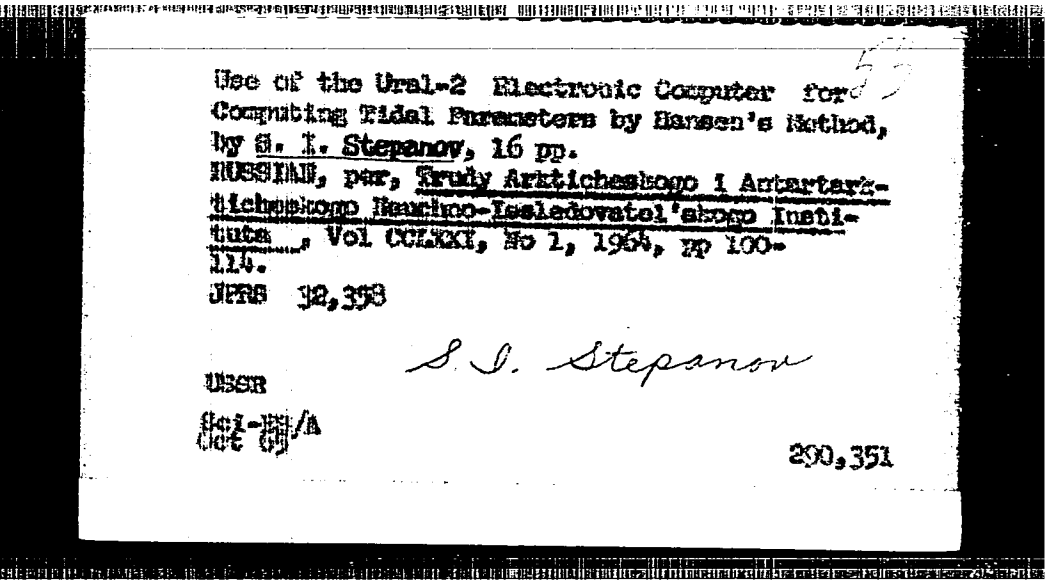
Sci Trans Center RT-412

Scientific - Physics
CTS/DEX

10,897

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(



Use of the Ural-2 Electronic Computer for Computing Tidal Parameters by Hansen's Method, by S. I. Stepanov, 16 pp.
RUSSIAN, per, Trudy Arkticheskogo i Antarkticheskogo Nauchno-Issledovatel'skogo Instituta, Vol CCLXXI, No 1, 1964, pp 100-110.
JPRS 32,393

S. I. Stepanov

USSR

290,351

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Absorption Spectra From Cold Light Sources, by B. I. Stepanov, Ya. S. Khvashchevskaya, 3 pp.

RUSSIAN, Dlkmo per, Dok Ak Nauk SSSR, Vol CXVI, No 4, 1957, pp 588.

Amer Inst of Phys
Sov Phys - "Doklady"
Vol II, No 5

Sci - Physics
Jun 58

65,504

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

On the Classification of Secondary Emission, by B. I. Stepanov, P. A. Apanasevich, 4 pp.

RUSSIAN, Dokl per, Dok Ak Nauk SSSR, Vol CXVI, No 5, 1957, pp 772.

Amer Inst of Phys
Sov Phys - "Doklady"
Vol II, No 5

Sci - Physics
Jun 58

65, 498

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Vibration Spectra of Hydrocarbon Molecules. II. Frequencies of Valence Vibrations of the Carbon Chain of Molecules of the Paraffin Series, by B. I. Stepanov, 19 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIV, No 4, 1940, pp 474-487.

10,937

Sci Trans Center RT-404

Scientific - Physics
CTS/DEX

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

The Theory of Color of the Organic Compounds, I.,
by B. I. Stepanov.

RUSSIAN, no per, Zhur Fiz Khim, Vol XXIV, No 12, 1955,
pp 2173-2184.

Tech and Comm Tr
$75.00

35,592

Scientific - Chemistry, Physics

Sci Mus Sib 56/4123

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Vibration Spectra of Hydrocarbon Molecules. V. Calculation of Frequencies of the Valence Oscillations of Carbon Chains of the Olefin Series, by B. I. Stepanov, 17 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XV, No 1, 1941, pp 78-90.

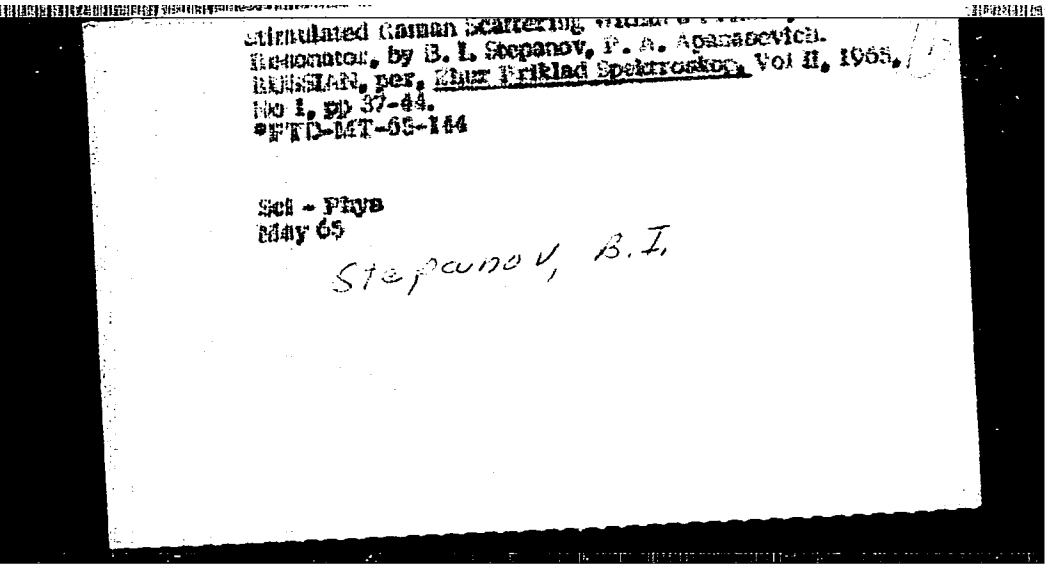
10,938

Sci Trans Center RT-411

Scientific - Physics CTS/DEX

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(



stimulated Raman Scattering [illegible]
Resonator, by B. I. Stepanov, P. A. Apanasevich.
RUSSIAN, per, Zhur Prikl Spektroskop, Vol II, 1965,
No 1, pp 37-44.
*FTD-MT-65-144

Sci - Phys
May 65

Stepanov, B. I.

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Remarks on the Energy Principle in Magnetohydrodynamics, by K. N. Stepanov, V. V. Khomeniuk, 6 pp.

RUSSIAN, per, Prik Matemat i Mekh, Vol XXV, No 4, 1961.

Pergamon Press

Sci
Jul 64

263,689

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

The Natural Shape of Energy Levels, by B. I. Stepanov, P. A. Apanasevich, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXV, No 3, 1957, pp 488-490.

Amer Inst of Phys
Sov Phys-Doklady
Vol II, No 4

Sci - Phys

May 58

63,702

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Vibration Spectra of Hydrocarbon Molecules. VIII. Calculation of Constants of the Potential Energy According to the Vibration Frequencies of Methane and Ethane, by B. I. Stepanov, 21 pp.

Russian Zhur Fiz Khim, Vol XV, No 7-8, 1941, pp 865-881.

Sci Tr Center RT-1221

Scientific - Physics

Jul 54 CTS 16,05

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Basic Problems in the Spectroscopy of Scattering Media, by B. I. Stepanov, 9 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, Vol XXI, No 11, 1957, pp 1485-1493.

Columbia Tech

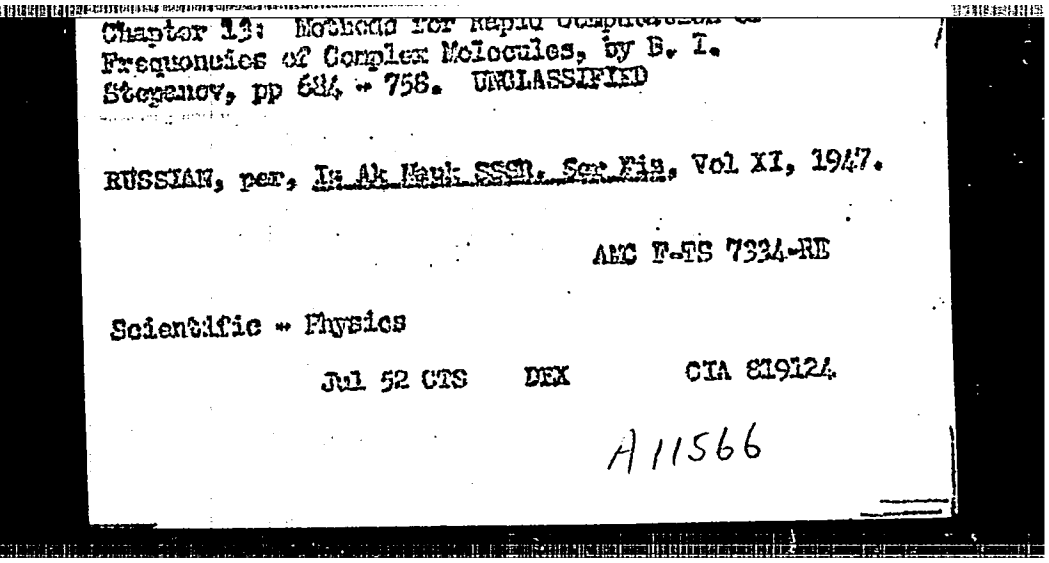
Sci - Phys

Feb 59

80, 774

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(



Chapter 13: Methods for Rapid Calculation of
Frequencies of Complex Molecules, by B. I.
Stepanov, pp 684 - 756. UNCLASSIFIED

RUSSIAN, per, Iz. Ak. Nauk SSSR, Ser. Fiz., Vol XI, 1947.

AEC F-TS 7334-RE

Scientific - Physics

Jul 52 CTS DEX CIA 819124

A11566

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

1.

Infra-red Spectra of Uranyl Salts, by A. N. Sevchenko and B. V. Stepanov,

RUSSIAN, Zhur Eksper i Teorat Fiz, Vol 19, No 12, 1949, pp 1113-1120.

Sci Museum Lib No 50/3804 - London

Sci

A 10735

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

VOLKENSTEYN, M. V.
ELIASHEVICH, M. A.
STEPANOV, B. I.

Molecular Oscillations. The Geometry and Mechanics of Molecular Oscillations, Vol I., 40 pp. UNCLASS

RUSSIAN, bk, Moscow/Leningrad, 1949.

AMC F-TS-7334

A-2125

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Molecular Oscillation, The Geometry and Mechanics of Molecular Oscillations, by M. V. Mak Volkenstein, M. A. Elliashevich, B. I. Stepanov, 291 pp.

RUSSIAN, Chapter II, III, IV, V, of bk, 1949.

AMC F-TS-7334

Sci -- Physics

Jan 52 CTS

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Stepanov, B. I. and Prima, A. M.
THE VIBRATIONAL SPECTRA OF SILICATES. I. THE COMPUTATION OF FREQUENCIES AND INTENSITIES OF THE SPECTRAL BANDS OF THE SILICATES. [1961] [28]p. 22 refs.
Order from LC or SLA mi$2.70, ph$4.80 61-10905

Trans. of Optik[a] i Spekt[roskopiya] (USSR) 1958, v. 4 [no. 6] p. 734-749.

New secular equations expressing the frequencies, forms of the normal vibration, intensities, and polarization of the vibrational lines of the crystals are derived for pyroxenes, crystals with layers of SiO_4 tetrahydra, beta-quartz, and beta-cristobalite. (See also 61-10906)

(Physics--Spectroscopy, TT, v. 5, no. 11)

61-10905

1. Silicates--Spectra
2. Glass--Spectra
3. Raman spectra--Analysis
4. Infrared spectra--Analysis

I. Stepanov, B. I.
II. Prima, A. M.
III. Title: Computation...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Stepanov, B. I. and Prima, A. M.
THE VIBRATIONAL SPECTRA OF SILICATES. II. INTERPRETATION OF THE SPECTRA OF GLASSES. [1961] [22]p. 15 refs.
Order from LC or SLA mi$2 70, ph$4.80 61-10906

Trans. of Optik[a] i Spekt[roskopiya] (USSR) 1958, v. 5 [no. 1] p. 15-22.

Previously derived equations (Optika i Spektroskopiya 4: 734-749, 1958; available in translation from LC or SLA mi$2.70, ph$4.80 as 61-10905) are used to calculate the vibrational spectra of silicate crystals and to interpret the Raman and IR spectra of the silicate glasses and several crystals. The spectra of metasilicate and bi-silicate are qualitatively different. The spectrum of glasses of the bi-silicate composition suggest the existence in glass of the elements of layers composed of SiO_4 tetrahydra. The crystals with chemical composition equivalent to that of bi-silicate possess the layers of SiO_4 tetrahydra.
(Physics--Spectroscopy, TT, v. 5, no. 11)

61-10906

1. Silicates--Spectra
2. Glass--Spectra
3. Raman spectra--Analysis
4. Infrared spectra--Analysis
I. Stepanov, B. I.
II. Prima, A. M.
III. Title: Interpretation...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

The Problem of the Nature of the Primary Products of Reaction of Amines With Nitrous Acid, by B. I. Stepanov, E. A. Vinnikov, E. S. Lisitsyna, 4 pp.

RUSSIAN, mo per, Zhur Obshch Khim, Vol XXV, No 9, Sep 1955, pp 1794-1798. CIA C 42158.

Consultants Bureau

35,478

Sci - Chemistry

Jun 1956/Dex

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Phytotron - A Climatic Device For Conducting Scientific Research, by S.V. Andreyev, B.K. Martens, B.K. Stepanov, et al.

RUSSIAN, per, Vest Sel'skokhoz Nauk, Vol V, No 3, Mar 1960, pp 129-133. 9078946

SSDA

Sci - Engr
Aug 61

163,035

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

A Formal Definition of R-Operations, by B. M. Stepanov, 3 PP.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXXVII, No 4, 1961, pp 818-821.

AIP
Sov Phys - Dok
Vol VI, No 4

173.081

Sci

Oct 61

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Some problems in the Telemetry of Fast Processkes, by V. K. Arkhipov, B. M. Stepanov, 10 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved MVISSO SSSR po Razdelu Radiotekh, Vol VI, No 5, 1963, pp556-561.

JPRS. 23532

Sci

Mar 64

254,639

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

The Structure of Nonrelativistic Counter-Terms, by B. M. Stepanov, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXXIII, No 3, 1960, pp 547-.

AIP
Sov Phys- Doklady
Vol V, No 4

Sci

Mar 61

141,681

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Nonrelativistic Regularization of the S-Matrix, by B. M. Stepanov,

RUSSIAN, per, Dok Ak Nauk SSSR, Phys Sec, Vol CVIII, No 6, 1956, pp 1045-

Amer Inst of Phys
Sov Phys "Doklady"
Vol I, No 3

Sci - Phys
Aug 57

57,963

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

On the Role of Bound States in Photoproduction, by A. A. Logunov, A. M. Stepanov, A. N Tavkhelidze, B.
3 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol CXII, No 1, 1957, pp 45-47.

Amer Inst of Phys
Sov Phys, "Doklady"
Vol II, No 1

56,938

Sci - Physics
Dec 57

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

A Note Concerning Dispersion Relations for the Scattering of Pions by Nucleons, by B. M. Stepanov, 2 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXVIII, No 5, 1958, pp 911-912.

Amer Inst of Phys
Sov Phys - Doklady
Vol III, No 1

Sci - Phys

Jul 59

91.477

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Dispersion Relations for the Photoproduction of Pions, by A. A. Logunov, B. M. Stepanov, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys Sec, Vol CX, No 3, 1956, pp 368-

Amer Inst of Phys
Sov Phys "Doklady"
Vol I, No 5

57, 350

Sci - Physics
Aug 57

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Measurement of the Time Resolution of an Electronic Multiplier With a Large Output Current, by L. V. Artemenkova, B. M. Stepanov, 7 pp.

RUSSIAN, per, Radiotekh i Elektron, Vol IV, No 5, 1959, pp 872-876.

PP

Sci.

132,106

Nov 60

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(